



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000080025 | Submit Date: 08/06/2019 | Call Sign: WCMV | Facility ID: 9922 | FRN: 0002733764 | State: Michigan | City: CADILLAC

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 08/16/2019 | Expiration Date:

Filing Status: InActive

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Applicant  
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
CENTRAL MICHIGAN UNIVERSITY Applicant Doing Business As: CENTRAL MICHIGAN UNIVERSITY	Wayne Henderson PUBLIC BROADCASTING 1999 EAST CAMPUS DR. MT. PLEASANT, MI 48859 United States	+1 (989) 774- 3105	hende1ww@cmich. edu	Other

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact  
Representatives  
(3)

Contact Name	Address	Phone	Email	Contact Type
WAYNE HENDERSON Bellamy CMU PUBLIC BROADCASTING	Consulting Engineer 1999 EAST CAMPUS DR. MT PLEASANT, MI 48859 United States	+1 (989) 774- 6864	HENDE1WW@CMICH. EDU	Technical Representative
WAYNE HENDERSON HENDERSON CMU PUBLIC BROADCASTING	1999 EAST CAMPUS DR. MT PLEASANT, MI 48859 United States	+1 (989) 774- 6864	test@fcc.gov	Technical Representative
Barry S. Persh S. Persh Gray Miller Persh LLP	2233 Wisconsin Ave., NW Suite 226 Washington, DC 20007 United States	+1 (202) 776- 2458	bpersh@graymillerpersh. com	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	9922
	State	Michigan
	City	CADILLAC
	DTV Channel	17
	Designated Market Area	TRAVERSE CITY-CADILLAC
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	2

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1006720
Coordinates (NAD83)	Latitude	44° 44' 53.0" N+
	Longitude	085° 04' 08.0" W-
	Structure Type	GTOWER-Guyed Structure Used for Communication Purposes
	Overall Structure Height	378.9 meters
	Support Structure Height	363.3 meters
	Ground Elevation (AMSL)	374.0 meters
Antenna Data	Height of Radiation Center Above Ground Level	370 meters
	Height of Radiation Center Above Average Terrain	393 meters
	Height of Radiation Center Above Mean Sea Level	744.0 meters
	Effective Radiated Power	138.6 kW

Antenna  
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	Yes
	Antenna ID	60511
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TUF P4 12/48
	Rotation	0 degrees
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	0.993	90	0.573	180	1	270	0.792
10	0.943	100	0.532	190	0.942	280	0.742
20	0.826	110	0.474	200	0.83	290	0.656
30	0.698	120	0.475	210	0.735	300	0.626
40	0.611	130	0.541	220	0.702	310	0.668
50	0.525	140	0.595	230	0.649	320	0.683
60	0.461	150	0.686	240	0.611	330	0.713
70	0.488	160	0.842	250	0.671	340	0.832
80	0.566	170	0.972	260	0.775	350	0.962

Additional Azimuths

Degree	V <sub>A</sub>
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## Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	<p><b>FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID</b></p> <p>Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application.</p> <p>WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).</p>	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	<p><b>James E Rademaker II E Rademaker , II .</b>  <i>Interim General Manager,  WCMU Public Media</i></p> <p>08/06/2019</p>

Attachments

File Name	Uploaded By	Attachment Type	Description
<a href="#">9922.pdf</a>	Internal	All Purpose	
<a href="#">WCMV(TV) Reduced Power STA. pdf</a>	Applicant	General Information	WCMV(TV) Reduced Power Notice and STA Request